

(Task #5754)

Bond Release Findings

12/18/2013

Mine Name: Western Zirconium Pit

Operator: W.W. Clyde

I.D. No.: S/057/0009

Mineral Ownership: FEE

Surface Ownership: FEE

Disturbed and Bonded Area: 10 ac

Acres Requested for Partial Release: 10

Acres to be Release with this Action: 5

Surety

Total Surety Amount: \$50,000

Form: Surety

Amount Requested for Release: \$5,000

Amount Recommended for Released: \$45,000

Operations:

This was a simple rock/gravel quarry with material being used at the Western Zirconium plant to shore up and expand process ponds located due east of the mining operation. W.W. Clyde was contracted by Western Zirconium (WZ) to perform excavation, transport, dike construction and reclamation work. Rock was excavated from a hillside and loaded into trucks for transport approximately 1 mile to the use area. Surety covers regrading and revegetation of the mining area. The property is owned by Western Zirconium, a division of Westinghouse.

Reclamation:

The excavated portion of the hillside has been regraded sufficiently for reclamation. This was done prior to a site visit in October of 2013. Remaining equipment removal, topsoil redistribution and reseeding was done after that date. At the time of the October inspection, a stockpile of rock and gravel was still on site on the lower flat portion of the permit area, awaiting loading and transport to the dikes. At that time, WZ requested that W.W. Clyde remove the stockpile and reclaim the entire site. However, since that time, WZ has changed its position and requested that the stockpile be left on site for their future use. WZ, owners of the property, sent the Division a statement that they would take over responsibility for the flat area (approx 5 acres) and has concurrence from Weber County to do so. Therefore, the Division should fully release W.W. Clyde of responsibility for this 5 acres of the site. W.W. Clyde will remain responsible for the revegetation of the remaining 5 acres.

Public Safety: Slopes have been stabilized. There were no other potential public safety and welfare hazards evident.

Slopes, Highwalls, and Pits: Slopes have been regraded to less than 45 degrees, approximately a 2h:1v slope. No highwalls or pits were created by the project.

Roads: There was a pre-existing road used as the haul-out road for the quarry. As per WZ request, this road remains in place.

Revegetation: Reseeding for revegetation was done in November of 2013. Success is yet to be determined.

Recommendation:

Since regrading has been completed and the land owner, Western Zirconium, has taken over responsibility for half the site, it is recommended that a partial release of \$45,000 of the \$50,000 bond be released, retaining \$5,000 to cover revegetation of 5 acres if needed.

Permit Lead

<P:\GROUPS\MINERALS\WP\M057-Weber\S0570009-WesternZirconiumPit\bond\BRFND-5754-12182013.doc>